# # # # # # # # # # # # # # # # # # #	000000000 0000000000 0000000000 000 000 000 000	RRR RRR RRR RRR RRR RRRRRRRRRRRRR RRRRRR	RRR RRR RRR RRR RRR	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR		
FFF	000 000	RRR RRR		RRR RRR	TTT	LLL
FFF	000000000	RRR RRR	RRR	RRR RRR	TTT	LLL
FFF	00000000		RRR	RRR RRR	ήήή	LLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLL
FFF	00000000		RRR	RRR RRR	ŤŤ	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII

FFFFFFFFF FF FF FF FF FF FF FF FF FF FF	000000 000000 00	RRRRRRRR RRRRRRRR RR RR RR RR RR RR RRRRRR
		\$
		\$\$\$\$\$\$ \$\$\$\$\$\$ \$\$ \$\$ \$\$
		\$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$\$

FILEID**FORREADIL

FFFFFFFFF FF FF FF FF FF FF FF FF FF FF	000000 00 00 00 00	RRRRRRRR RRRRRRRR RR RR RR RR RR RR RRRRRR	RRRRRRRR RRRRRRRR RR RR RR RR RR RR RRRRRR	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD		
LL	111111	SSSSSSSS					

FOR\$READ_IL - FORTRAN READ internal list-directed 15-SEP-1984 23:56:54 VAX/VMS Macro V04-00 Page 0

(2) 58 DECLARATIONS
(3) 102 FOR\$READ_IL - READ internal list-directed

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15-SEP-1984 23:56:54 VAX/VMS Macro V04-00 6-SEP-1984 10:59:07 [FORRTL.SRC]FORREADIL.MAR;1

.TITLE FOR\$READ_IL - FORTRAN READ internal list-directed .IDENT /1-001/ File: FORREADIF.MAR Edit: SBL1001

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; FACILITY: FORTRAN Support Library - user callable

ABSTRACT:

0000 0000 0000

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This module contains the entry point for the FORTRAN READ internal list-directed I/O statement. It is simply a call to FOR\$\$IO_BEG with bits in RO which describe the parameter list. FOR\$\$IO_BEG interprets the parameters.

MAINTENANCE NOTE:

The transfer vector (RTLVECTOR+ALLGBL) must have the following:

.TRANSFER FORSREAD IF FORSSIO_BEG . MASK FORSREAD 1F+2 BRW

This puts the correct mask in entry vector, that is FOR\$\$10_BEG entry mask. Furthermore this module must only use RO and R1 since any other register might not be in the entry mask for FOR\$\$10_BEG.

ENVIRONMENT: User access mode; mixture of AST level or not

AUTHOR: Steven B. Lionel, CREATION DATE: 21-April-1983

Edit History:

: 1-001 - Original. SBL 21-April-1983

OWN STORAGE:

NONE

```
- FORTRAN READ internal list-directed 15-SEP-1984 23:56:54 VAX/VMS Macro V04-00 FOR$READ_IL - READ internal list-directe 6-SEP-1984 10:59:07 [FORRIL.SRC]FORREADIL.MAR;1
FORSREAD_IL
                                                                               .SBTTL FORSREAD_IL - READ internal list-directed
                                                                    FUNCTIONAL DESCRIPTION:
                                                                               Initialize the FORTRAN I/O system to perform a READ internal list-directed I/O statement.
                                                                      CALLING SEQUENCE:
                                                                               CALL FOR$READ_IL (user_vbl.rt.dx [, err_adr.j.r [, end_adr.j.r]])
                                                                      INPUT PARAMETERS:
                                                                               user_vbl.rt.dx
[err_adr.j.r]
[end_adr.j.r]
                                                                                                                 User's string variable optional ERR= address optional END= address
                                                                      IMPLICIT INPUTS:
                                                                               NONE except those used by FOR$$10_BEG.
                                                                      OUTPUT PARAMETERS:
                                                                               NONE
                                                                      IMPLICIT OUTPUTS:
                                                                               NONE except those left by FOR$$10_BEG.
                                                                      COMPLETION CODES:
                                                                               NONE
                                                              136
137
138
139
141
142
144
145
146
147
                                                                      SIDE EFFECTS:
                                                                               NONE except those of FOR$$10_BEG.
```

FORSREAD IL::

JMP

.END

.MASK FOR\$\$10_BEG #ISB\$K_ST_TY_RIC, RO G^FOR\$\$10_BEG+2

Statement type

branch past call mask

9A 17

50 16 00000002 GF

```
FORSREAD_IL
                                                                                                                                                 VAX/VMS Macro V04-00
[FORRTL.SRC]FORREADIL.MAR; 1
                                                 - FORTRAN READ internal list-directed
Symbol table
FOR$$10 BEG

FOR$$REC_RILO

FOR$$REC_RIL1

FOR$$REC_RIL9

FOR$$UDF_RLO

FOR$$UDF_RLO

FOR$$UDF_RL1

FOR$$UDF_RL9

FOR$READ_IL

ISB$K_ST_TY_RIL
                                                   *******
                                                                         *******
                                                   *******
                                                   *******
                                                   *******
                                                   *******
                                                   *******
                                                   00000000 RG
                                                = 00000016
                                                                            Psect synopsis!
PSECT name
                                                 Allocation
                                                                                PSECT No.
                                                                                                Attributes
                                                                                        0.)
                                                 00000000
    ABS
                                                                                                                      CON
                                                                                                                               ABS
                                                                                                                                        LCL NOSHR NOEXE NORD
                                                                                                                                                                         NOWRT NOVEC BYTE
_FOR$CODE
                                                 0000000B
                                                                                01 (
                                                                                                   PIC
                                                                                                            USR
                                                                                                                      CON
                                                                                                                               REL
                                                                                                                                                 SHR
                                                                                                                                                          EXE
                                                                                                                                        LCL
                                                                                                                                                                   RD
                                                                                                                                                                         NOWRT NOVEC LONG
                                                                       Performance indicators !
Phase
                                      Page faults
                                                             CPU Time
                                                                                    Elapsed Time
----
                                                             00:00:00.08
Initialization
                                                                                    00:00:00.66
                                                 121
                                                             00:00:00.63
00:00:01.26
00:00:00.18
                                                                                    00:00:03.24
Command processing
Pass 1
                                                                                    00:00:04.64
Symbol table sort
                                                                                    00:00:00.49
                                                             00:00:00.46
00:00:00.02
00:00:00.03
                                                   51
Pass 2
                                                                                    00:00:01.91
Symbol table output
                                                                                    00:00:00.02
                                                                                    00:00:00.05
Psect synopsis output
Cross-reference output
                                                             00:00:00.00
                                                                                    00:00:00.00
Assembler run totals
                                                             00:00:02.66
                                                                                    00:00:11.02
The working set limit was 900 pages.
6398 bytes (13 pages) of virtual memory were used to buffer the intermediate code.
There were 20 pages of symbol table space allocated to hold 187 non-local and 0 local symbols.
147 source lines were read in Pass 1, producing 8 object records in Pass 2.
9 pages of virtual memory were used to define 2 macros.
                                                                      Macro library statistics !
Macro Library name
                                                                     Macros defined
 $255$DUA28:[FORRTL.OBJ]FORRTL.MLB;1
$255$DUA28:[SYSLIB]STARLET.MLB;2
TOTALS (all libraries)
```

183 GETS were required to define 2 macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL, TRACEBACK)/LIS=LIS\$: FORREADIL/OBJ=OBJ\$: FORREADIL MSRC\$: FORREADIL/UPDATE=(ENH\$: FORREADIL)+LI

0183 AH-BT13A-SE

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